Auto-generated report from BCEAweb

Version: 23 September, 2020

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## Called from: eval(expr, envir, enclos)
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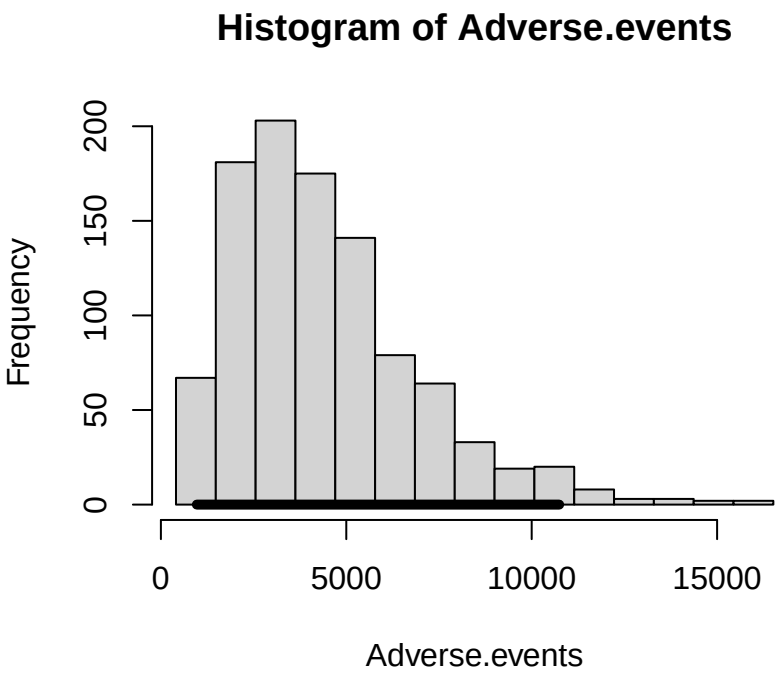
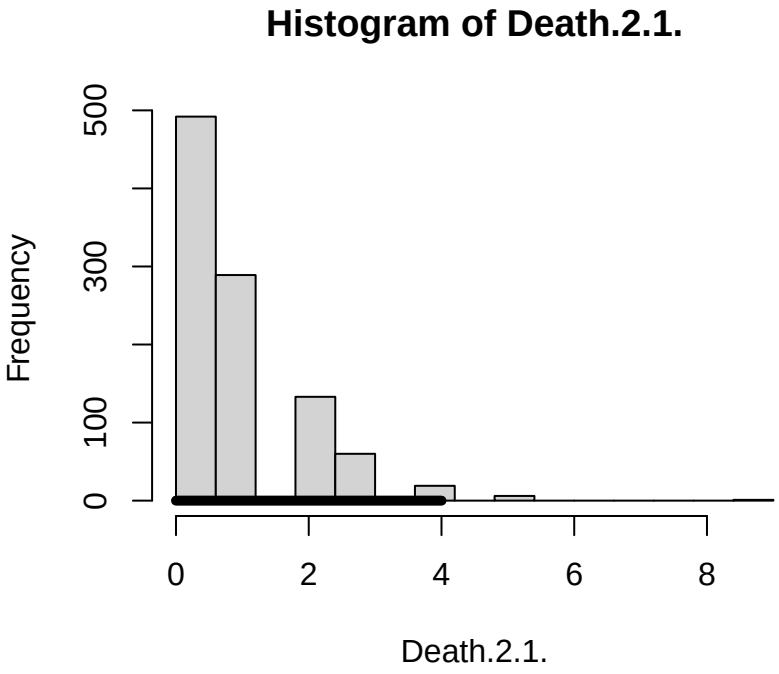
Distributional assumptions

This sections presents graphical and tabular summaries to check the distributional assumptions used for the $n = 56$ parameters included in the economic model. For each parameter, a histogram of the distribution is presented together with a summary table, reporting some relevant statistics.



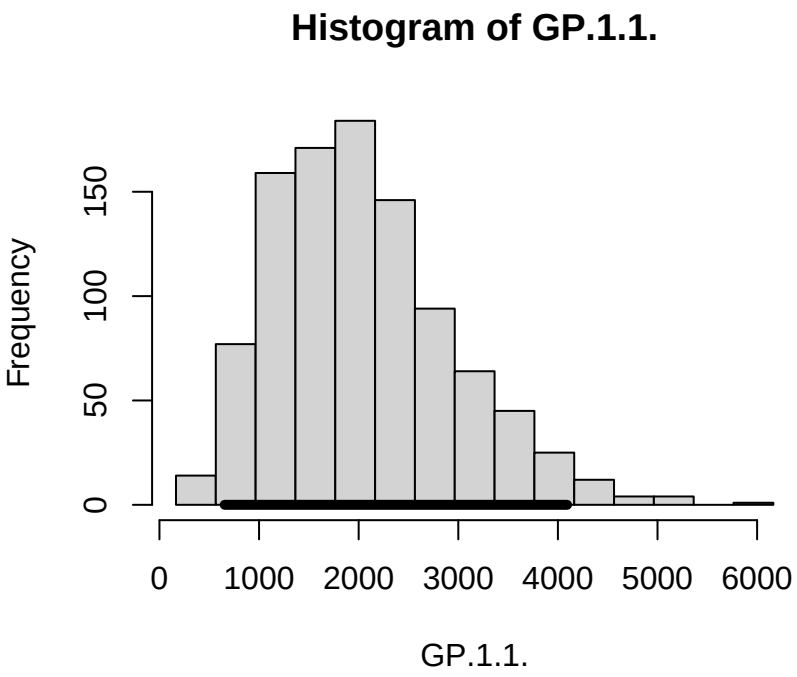
Mean	Standard deviation	2.5%	Median	97.5%	Monte Carlo SE
4384.479	2518.102	969.425	3874.5	10740.8	79.58956

Mean	Standard deviation	2.5%	Median	97.5%	Monte Carlo SE
1.573	1.539169	0	1	5	0.0486484

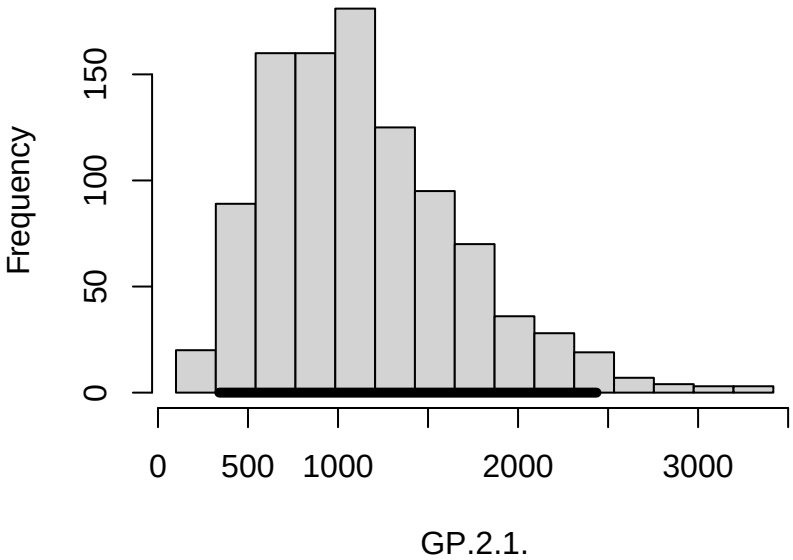


Mean	Standard deviation	2.5%	Median	97.5%	Monte Carlo SE
0.85	1.083824	0	1	4	0.0342564

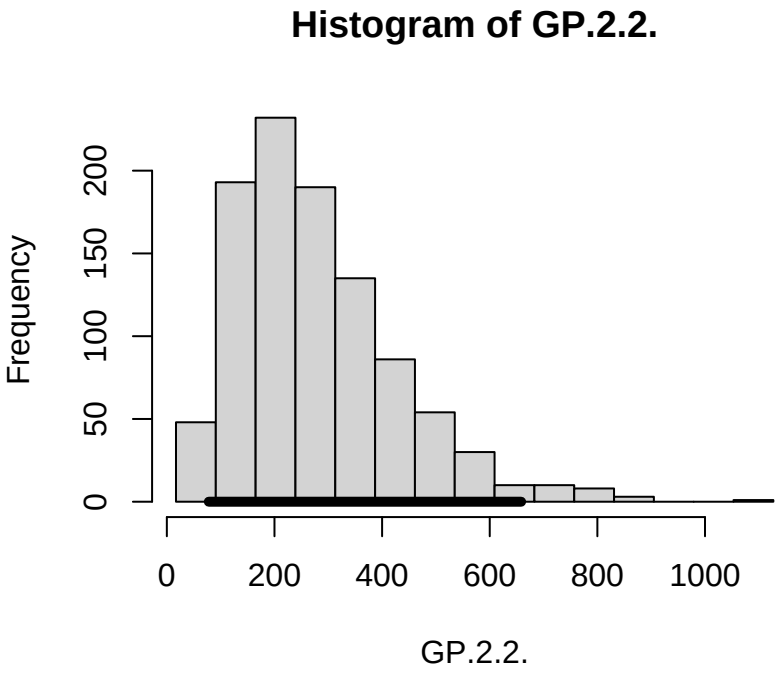
Mean	Standard deviation	2.5%	Median	97.5%	Monte Carlo SE
0.248	0.5447869	0	0	2	0.0172191



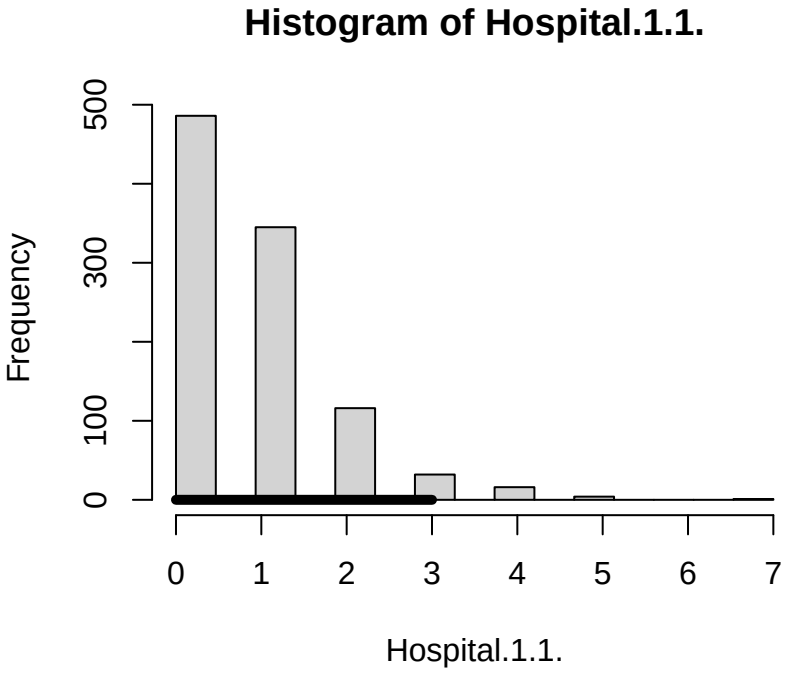
Mean	Standard deviation	2.5%	Median	97.5%	Monte Carlo SE
2045.987	896.964	654.925	1938.5	4092.15	28.35031



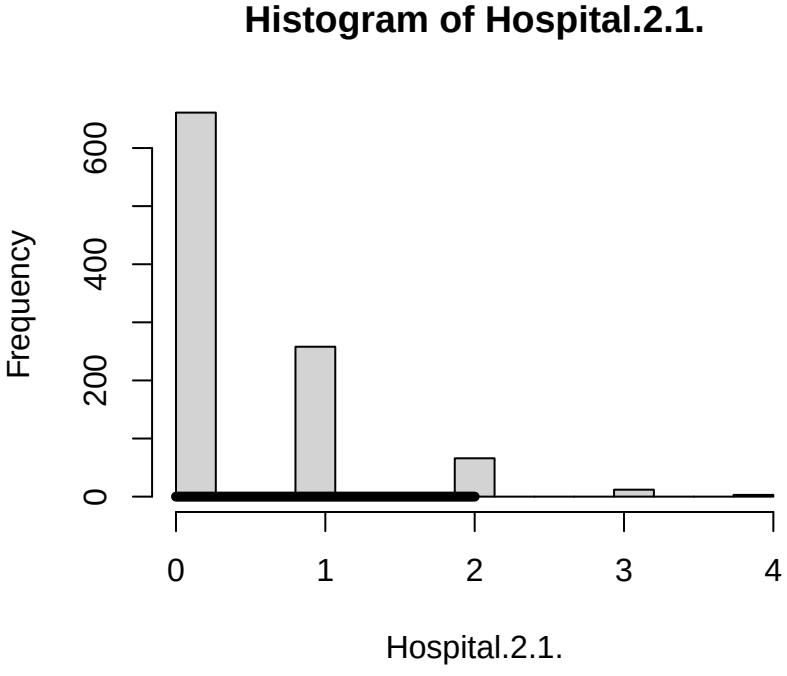
Mean	Standard deviation	2.5%	Median	97.5%	Monte Carlo SE
1148.308	543.1979	340.925	1083	2435.475	17.16883



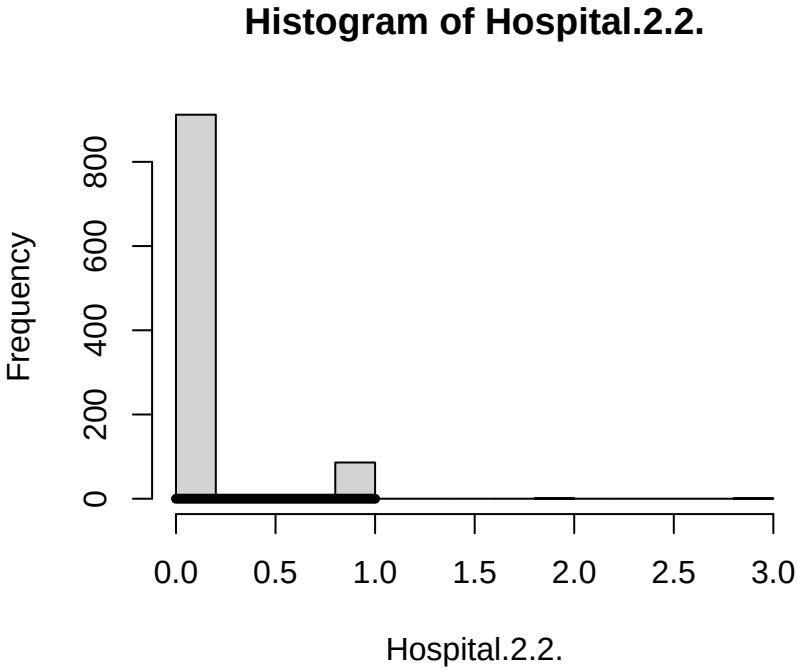
Mean	Standard deviation	2.5%	Median	97.5%	Monte Carlo SE
279.658	151.5797	78	249.5	658.325	4.790975



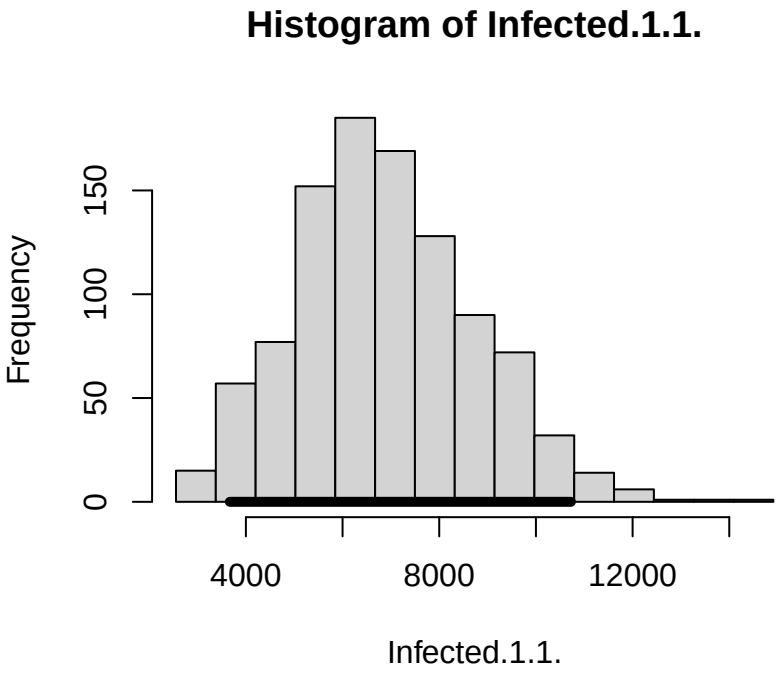
Mean	Standard deviation	2.5%	Median	97.5%	Monte Carlo SE
0.764	0.9587613	0	1	3	0.0303035



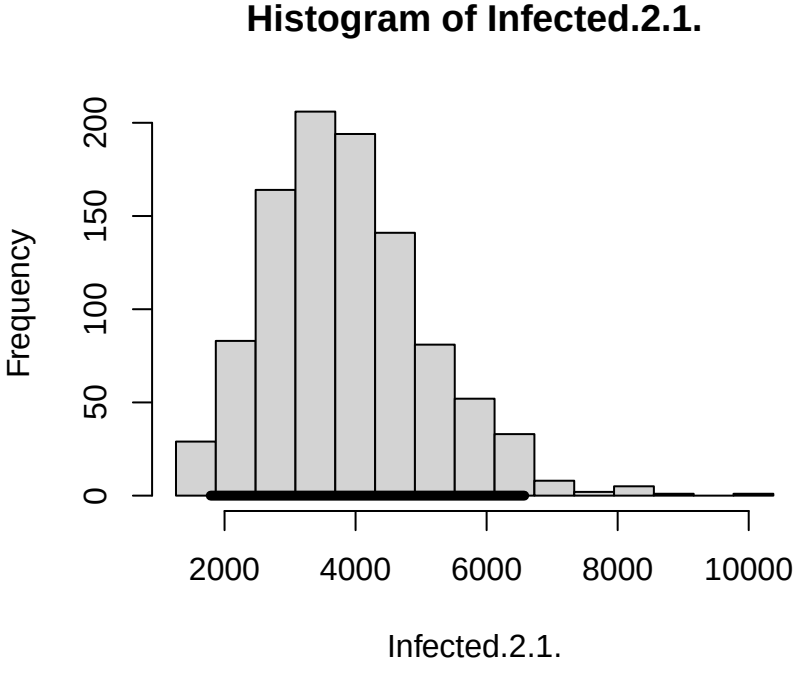
Mean	Standard deviation	2.5%	Median	97.5%	Monte Carlo SE
0.438	0.6975978	0	0	2	0.0220489



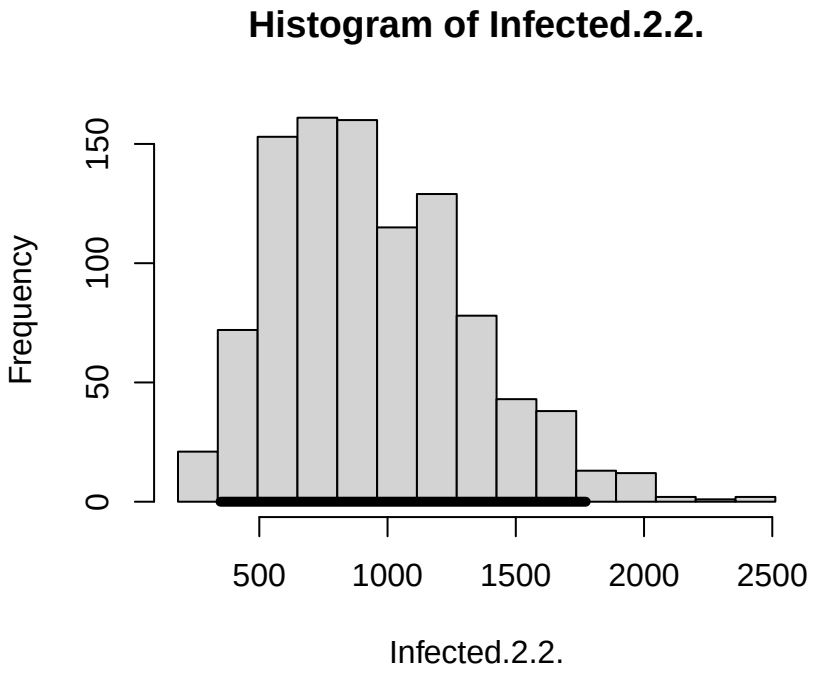
Mean	Standard deviation	2.5%	Median	97.5%	Monte Carlo SE
0.091	0.3013467	0	0	1	0.0095247



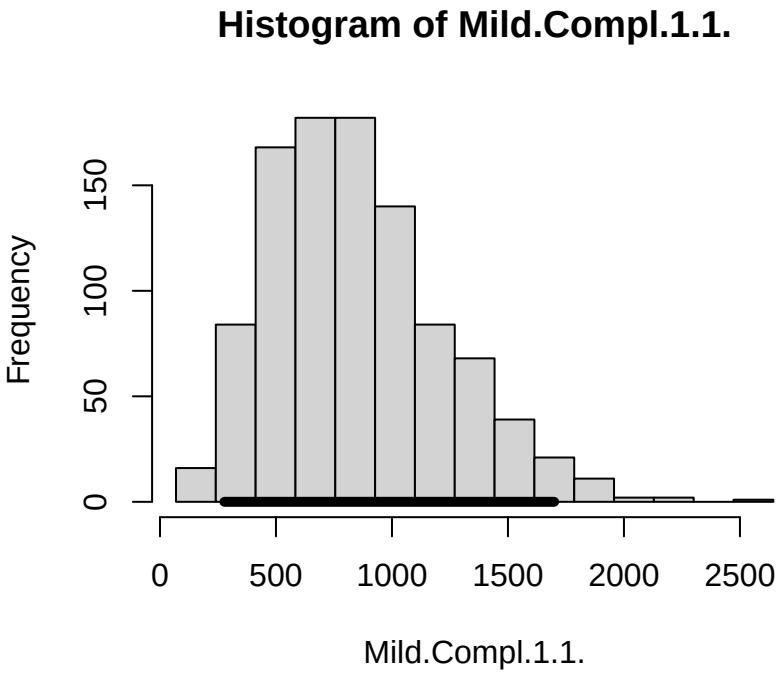
Mean	Standard deviation	2.5%	Median	97.5%	Monte Carlo SE
6904.96	1850.256	3667.9	6763	10724.17	58.48097



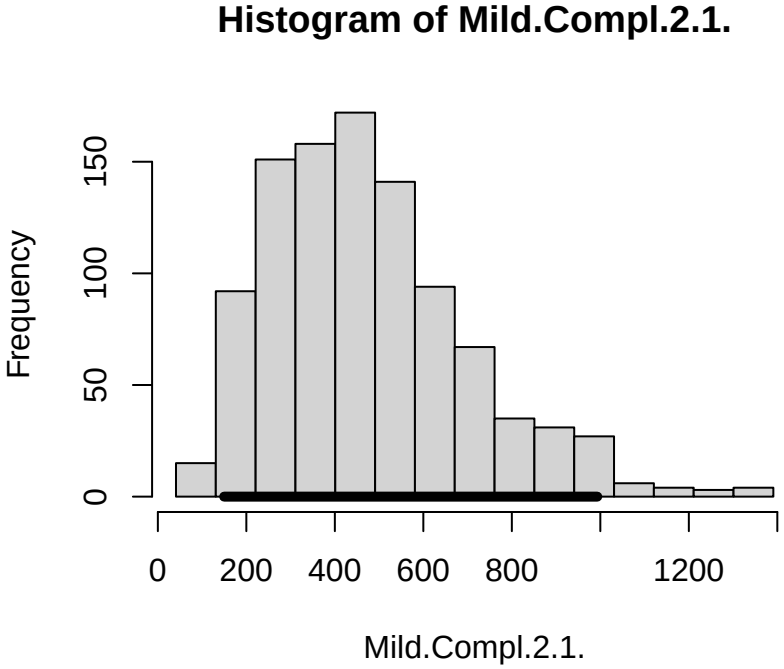
Mean	Standard deviation	2.5%	Median	97.5%	Monte Carlo SE
3874.547	1236.974	1789.575	3744	6573.125	39.097



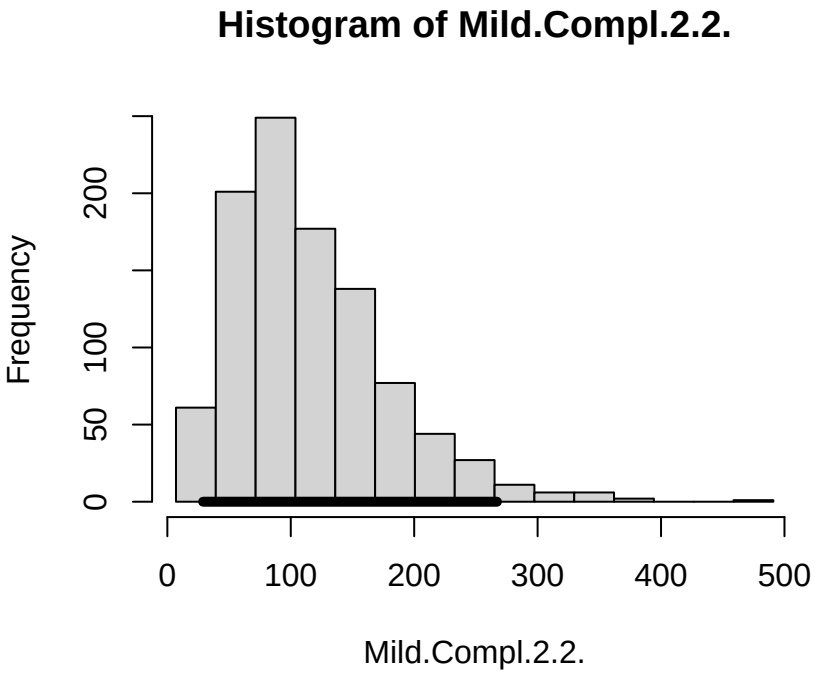
Mean	Standard deviation	2.5%	Median	97.5%	Monte Carlo SE
944.874	378.7866	348.875	895	1772.5	11.97229



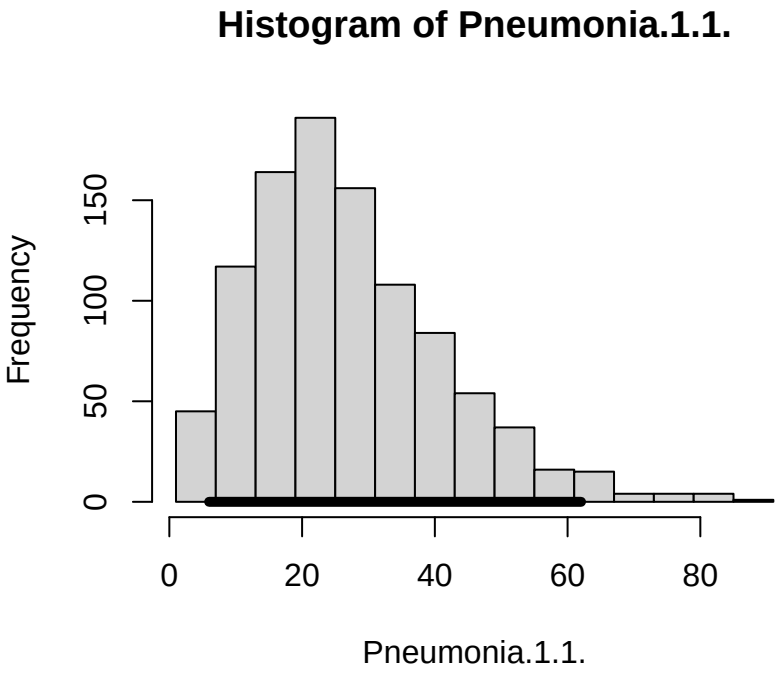
Mean	Standard deviation	2.5%	Median	97.5%	Monte Carlo SE
847.747	374.6328	277.9	800	1699.1	11.841



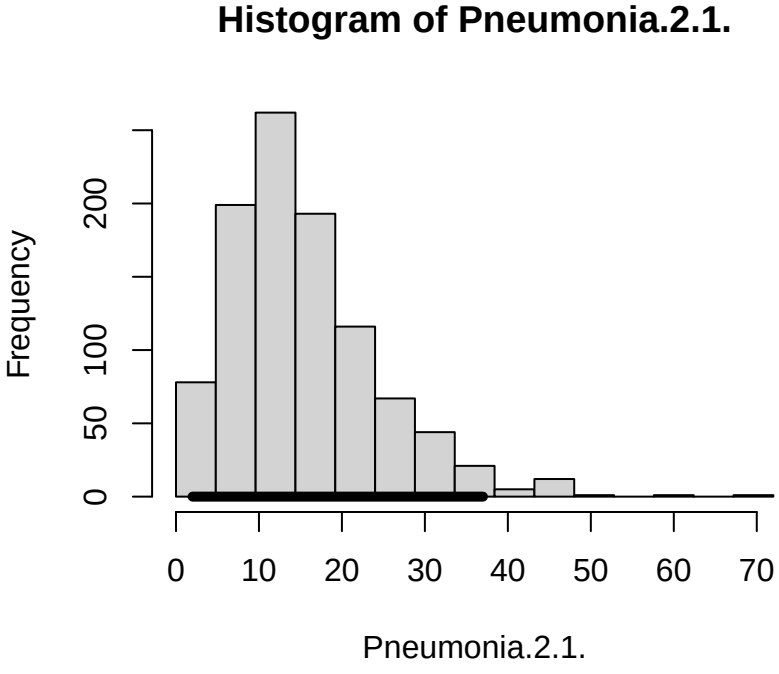
Mean	Standard deviation	2.5%	Median	97.5%	Monte Carlo SE
476.486	225.2089	149.875	446	993.075	7.118168



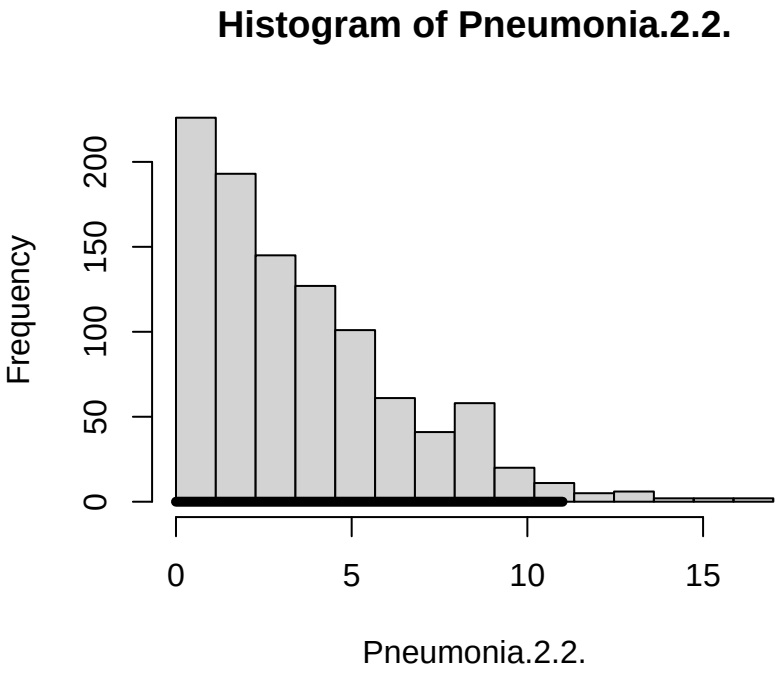
Mean	Standard deviation	2.5%	Median	97.5%	Monte Carlo SE
115.59	63.15335	29	102	267.05	1.996086



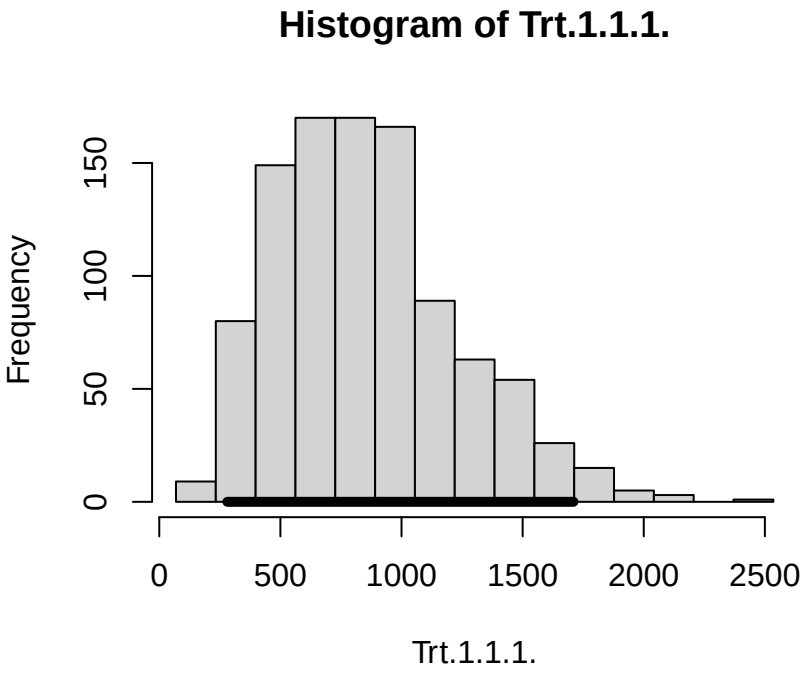
Mean	Standard deviation	2.5%	Median	97.5%	Monte Carlo SE
27.438	14.51919	6	25	62.025	0.4589076



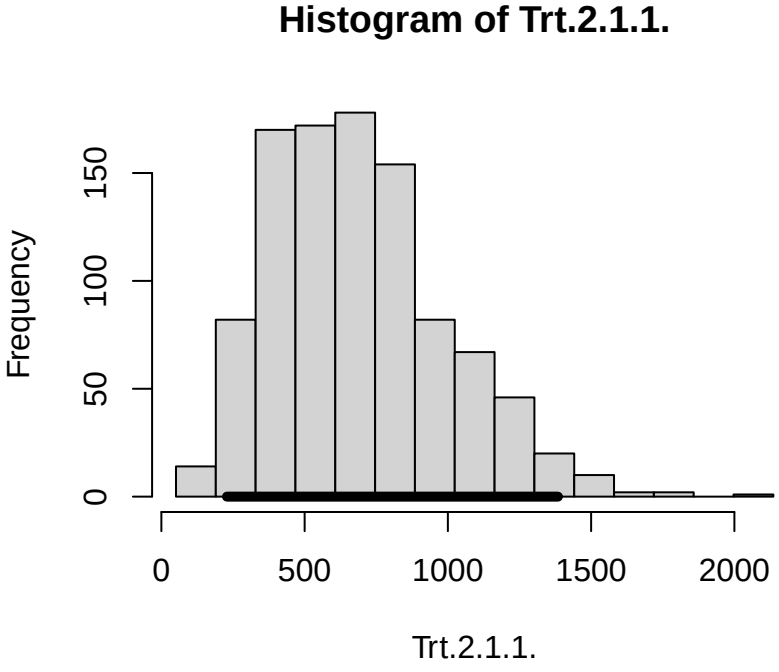
Mean	Standard deviation	2.5%	Median	97.5%	Monte Carlo SE
15.353	9.095555	2	14	37	0.2874829



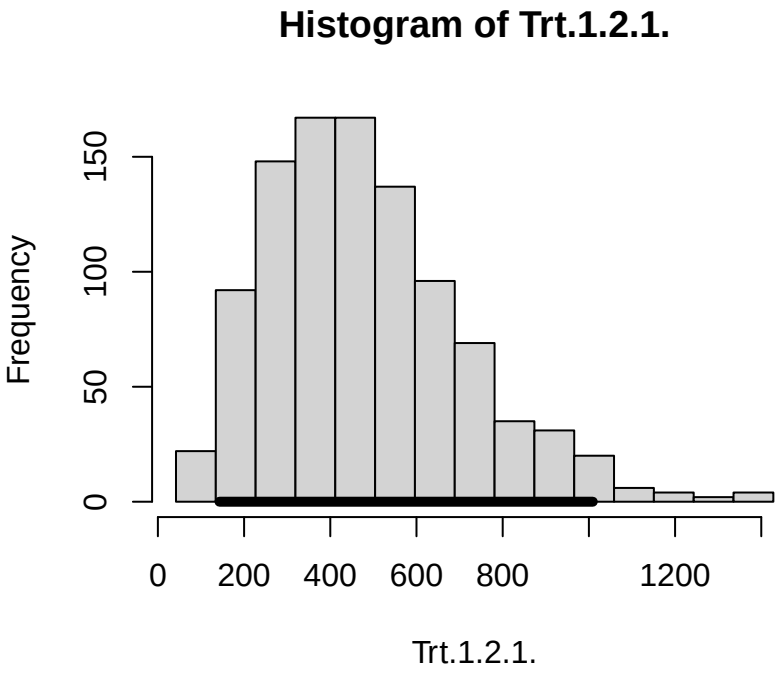
Mean	Standard deviation	2.5%	Median	97.5%	Monte Carlo SE
3.672	2.859824	0	3	11	0.0903904



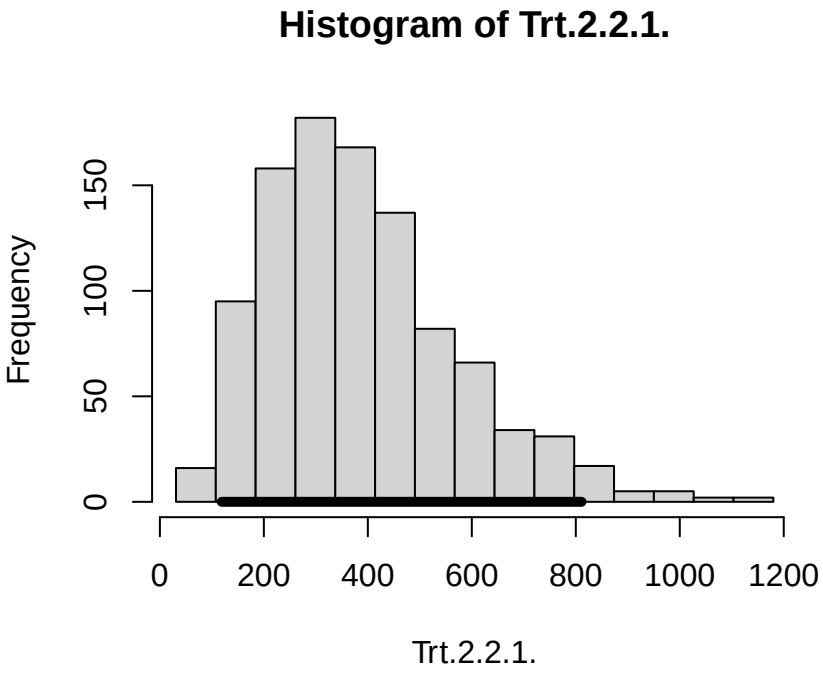
Mean	Standard deviation	2.5%	Median	97.5%	Monte Carlo SE
859.031	375.9444	281	816	1710.025	11.88246



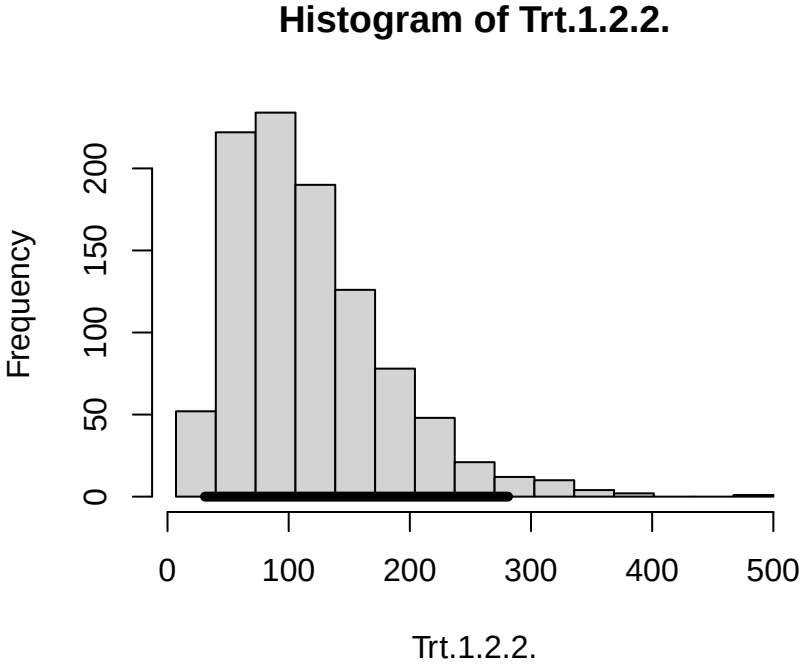
Mean	Standard deviation	2.5%	Median	97.5%	Monte Carlo SE
689.768	303.9169	228.875	653	1384.2	9.605891



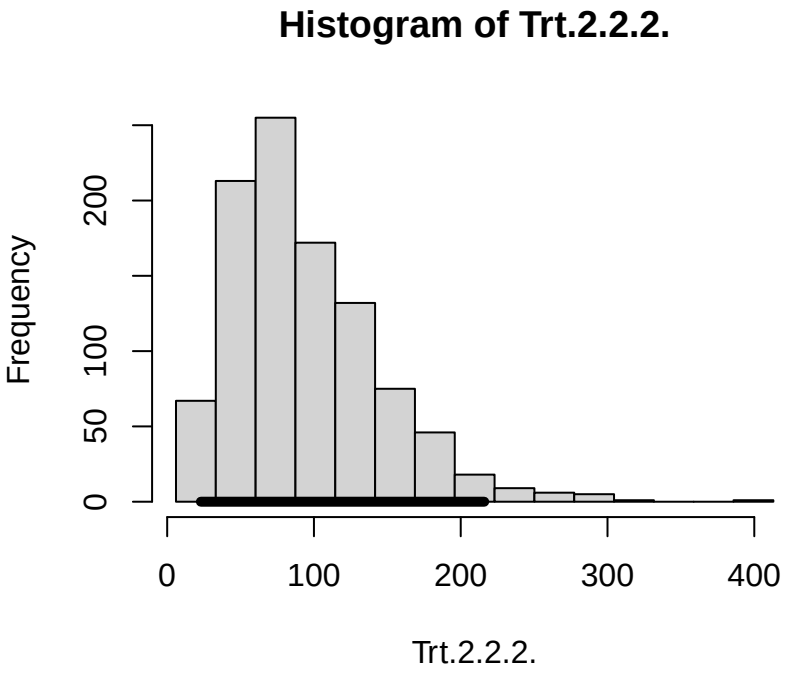
Mean	Standard deviation	2.5%	Median	97.5%	Monte Carlo SE
481.877	227.604	143	455	1009.075	7.19387



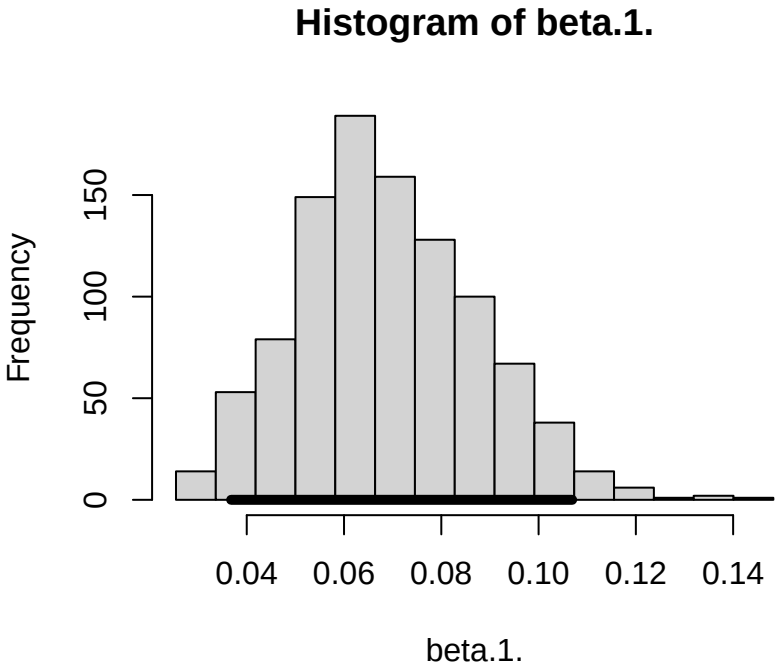
Mean	Standard deviation	2.5%	Median	97.5%	Monte Carlo SE
388.103	183.2891	118.975	364	811.05	5.793213



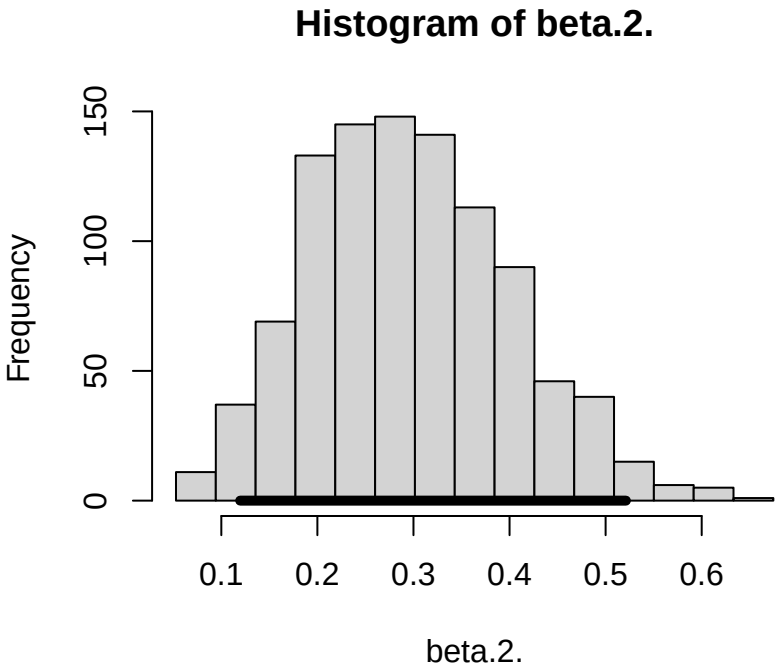
Mean	Standard deviation	2.5%	Median	97.5%	Monte Carlo SE
117.33	64.61155	30.975	105	281.025	2.042175



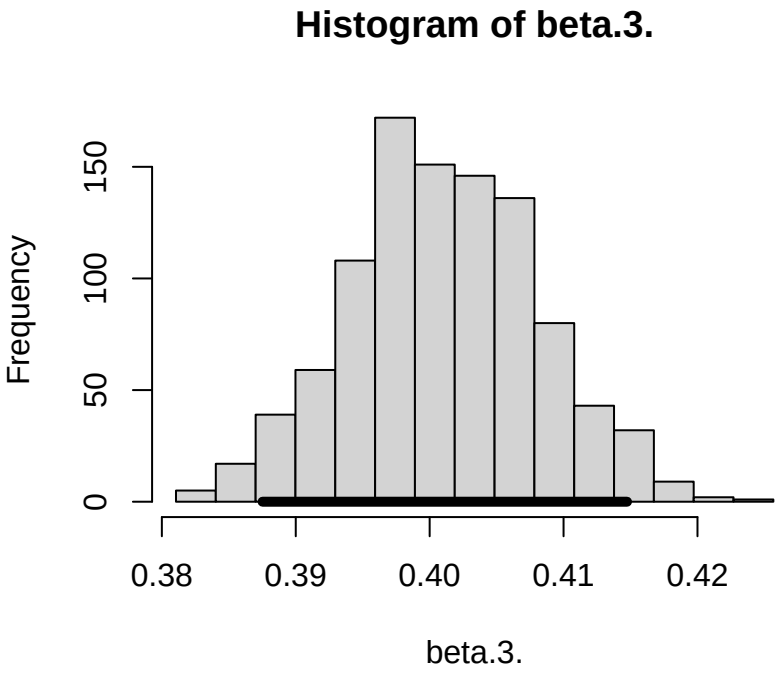
Mean	Standard deviation	2.5%	Median	97.5%	Monte Carlo SE
94.158	51.4585	22.975	83	216	1.626447



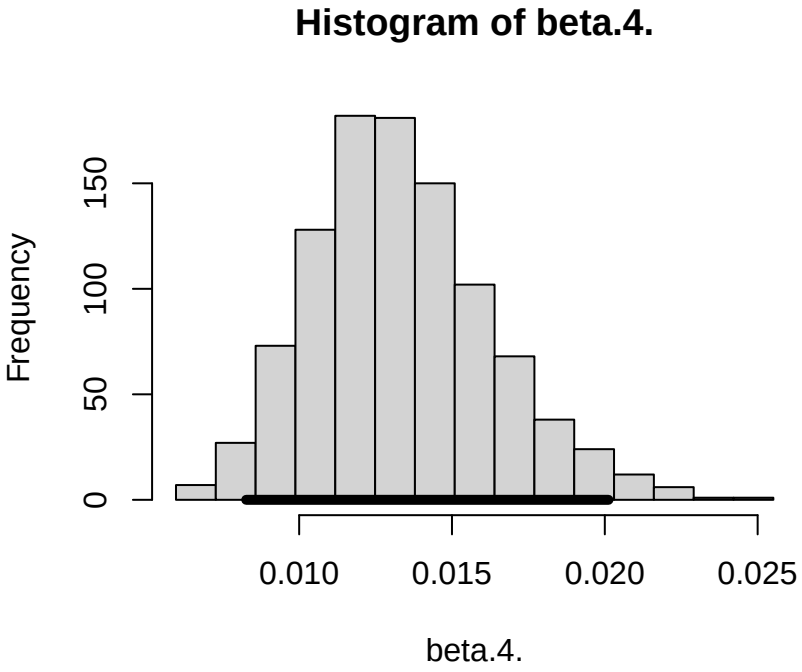
Mean	Standard deviation	2.5%	Median	97.5%	Monte Carlo SE
0.0690728	0.0185195	0.0367975	0.0676216	0.1069079	0.0005853



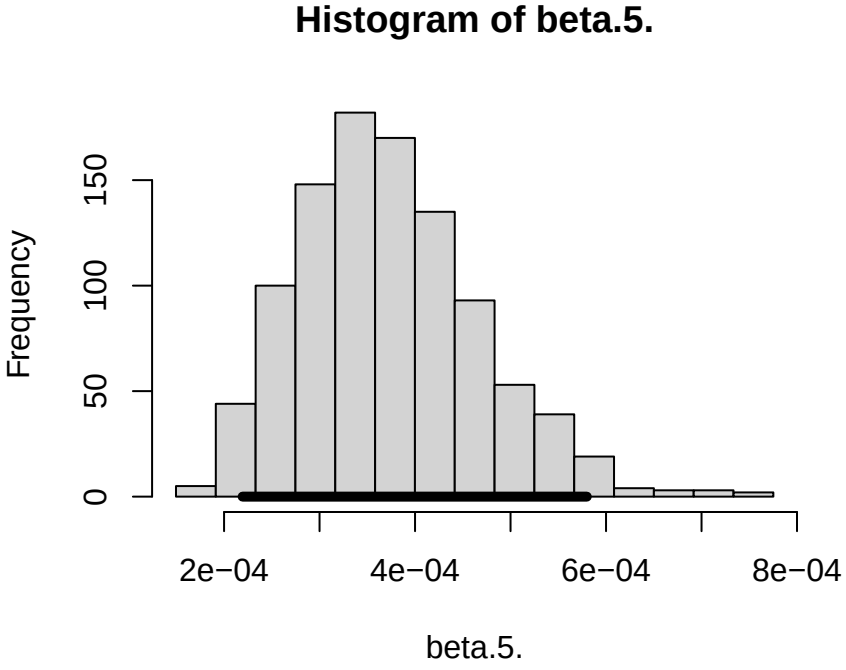
Mean	Standard deviation	2.5%	Median	97.5%	Monte Carlo SE
0.2971902	0.1047984	0.1196443	0.2898017	0.5211321	0.0033124



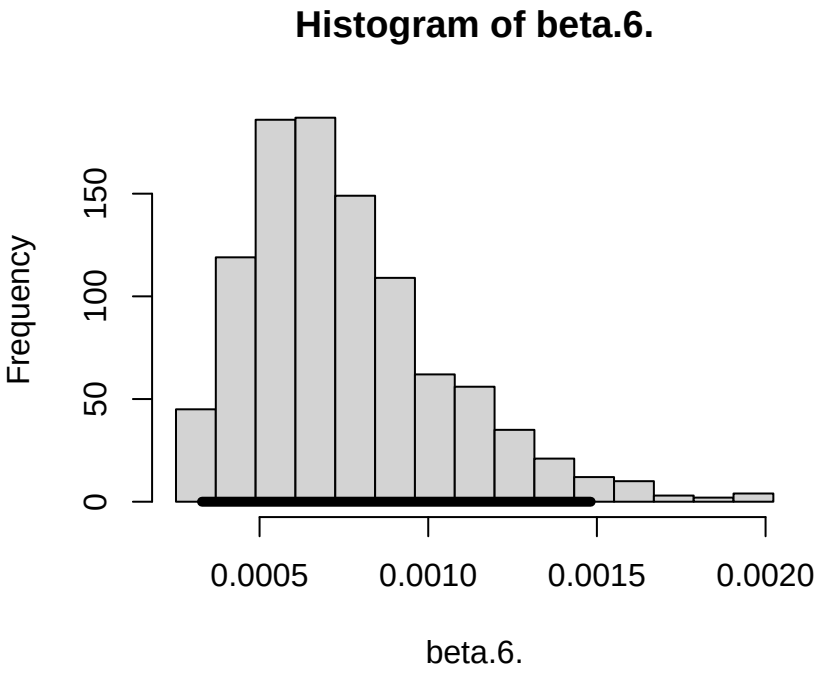
Mean	Standard deviation	2.5%	Median	97.5%	Monte Carlo SE
0.4010433	0.00703	0.3875232	0.4009802	0.4147382	0.0002222



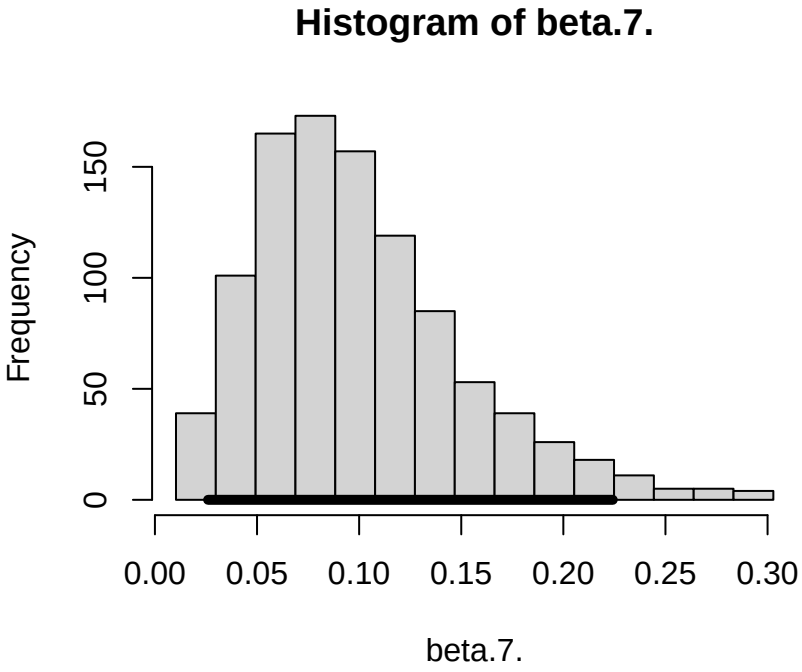
Mean	Standard deviation	2.5%	Median	97.5%	Monte Carlo SE
0.013347	0.0029279	0.0082679	0.0130898	0.020119	9.25e-05



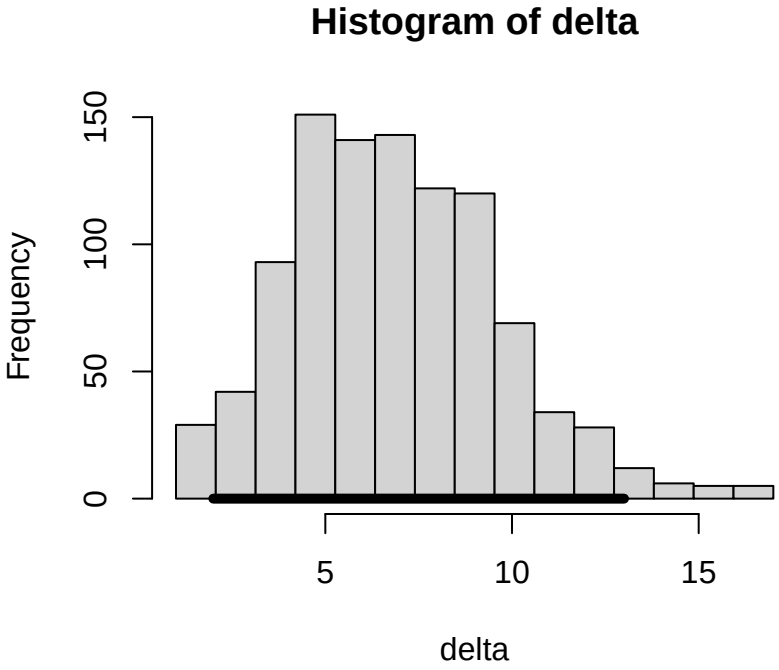
Mean	Standard deviation	2.5%	Median	97.5%	Monte Carlo SE
0.0003727	9.44e-05	0.0002194	0.0003636	0.0005799	3e-06



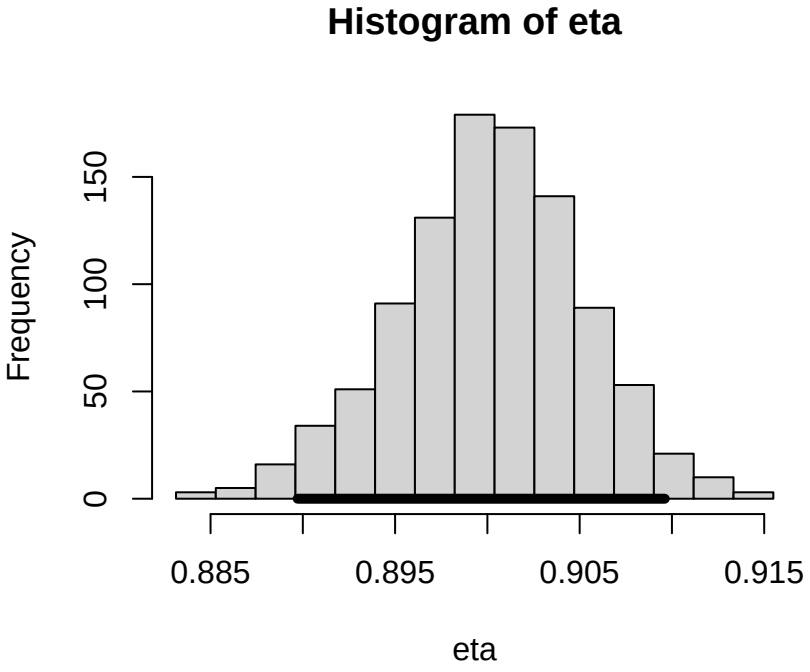
Mean	Standard deviation	2.5%	Median	97.5%	Monte Carlo SE
0.0007564	0.0002967	0.0003294	0.0007006	0.0014815	9.4e-06



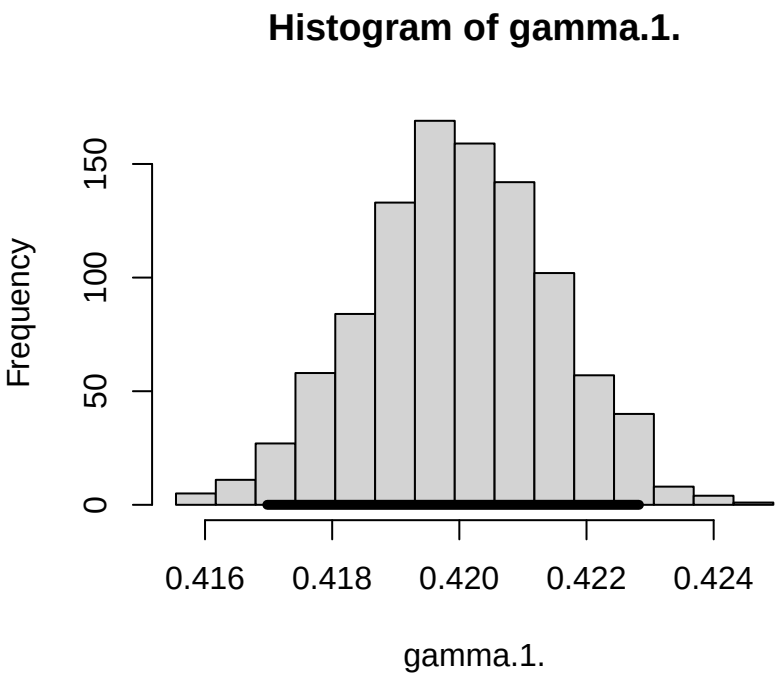
Mean	Standard deviation	2.5%	Median	97.5%	Monte Carlo SE
0.0997926	0.051201	0.0260358	0.0906289	0.2241951	0.0016183



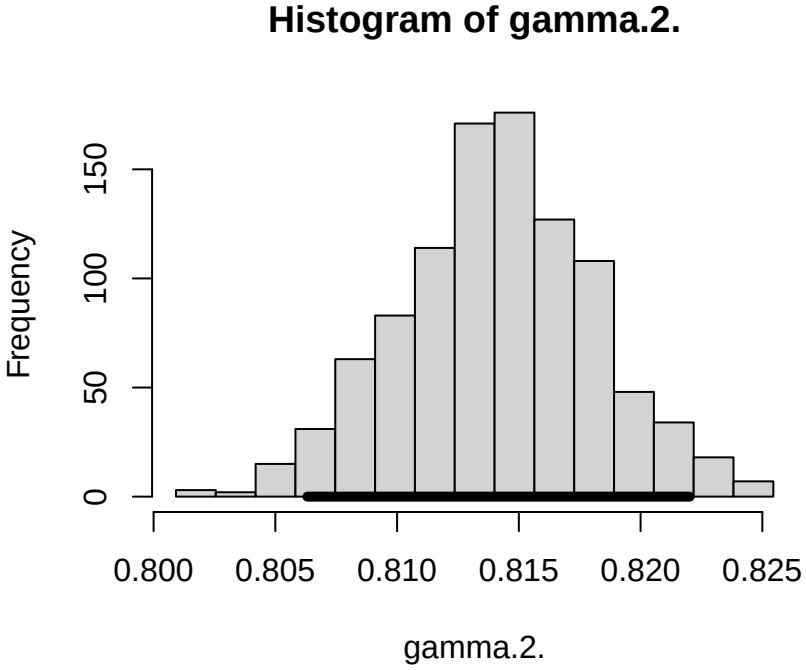
Mean	Standard deviation	2.5%	Median	97.5%	Monte Carlo SE
7.004	2.643667	2	7	13	0.0835583



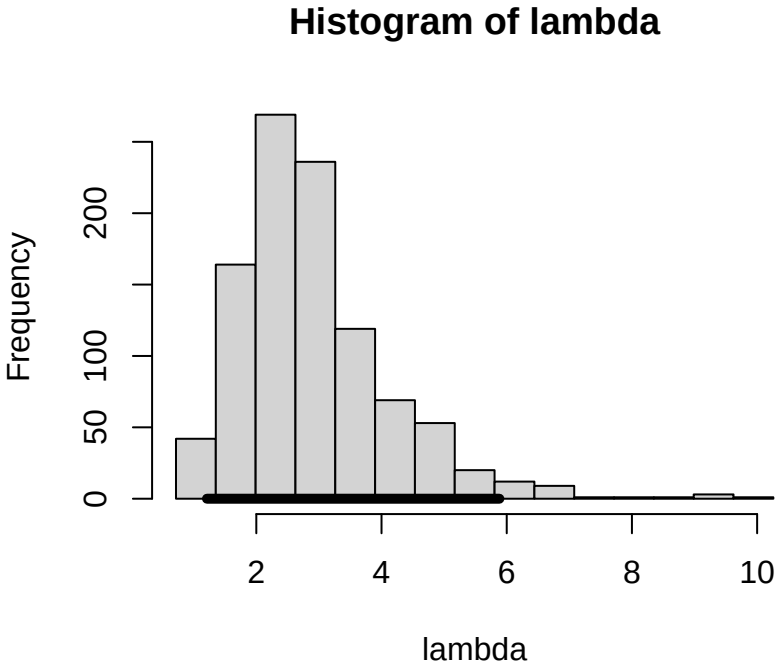
Mean	Standard deviation	2.5%	Median	97.5%	Monte Carlo SE
0.9001309	0.0050356	0.8897217	0.9002975	0.9096117	0.0001592



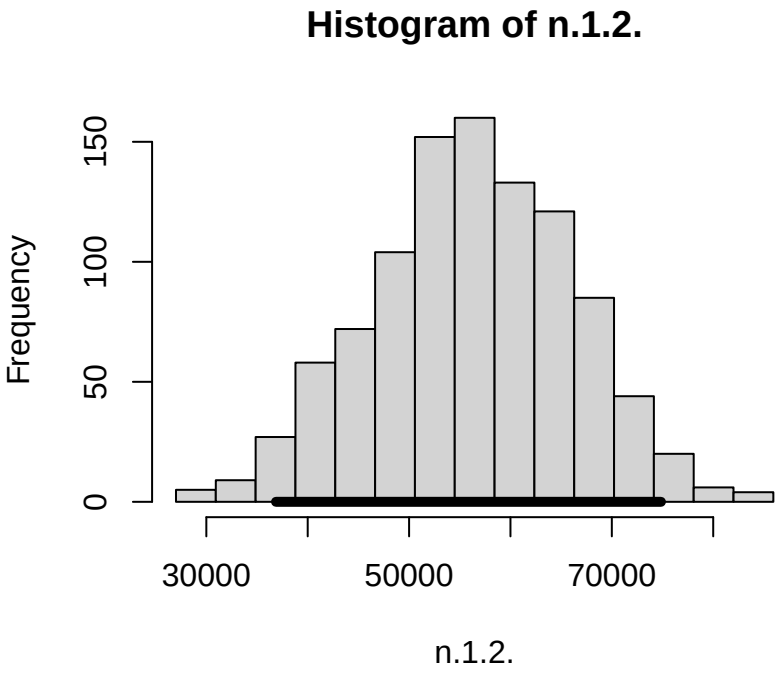
Mean	Standard deviation	2.5%	Median	97.5%	Monte Carlo SE
0.4199825	0.0014766	0.4169795	0.4199816	0.4228245	4.67e-05



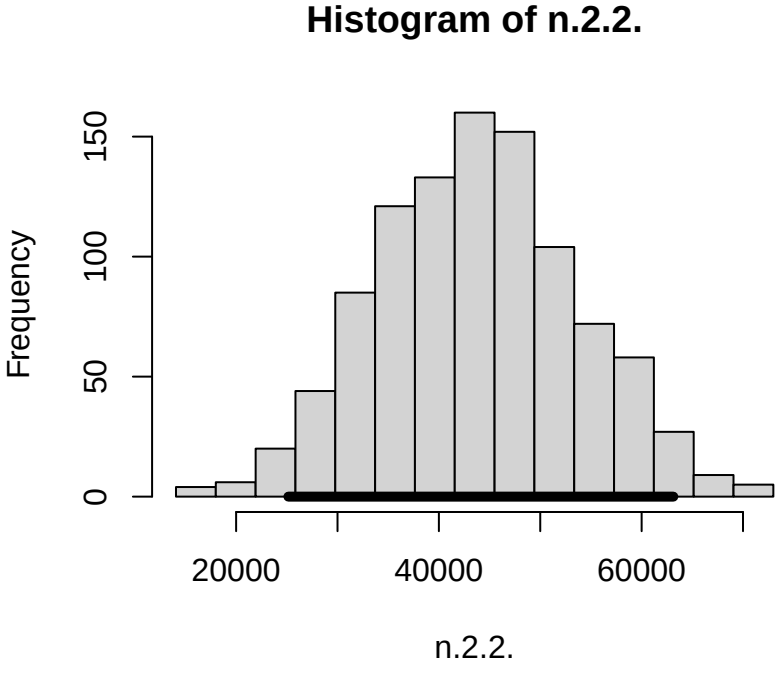
Mean	Standard deviation	2.5%	Median	97.5%	Monte Carlo SE
0.8141167	0.004001	0.8063162	0.8141551	0.822019	0.0001265



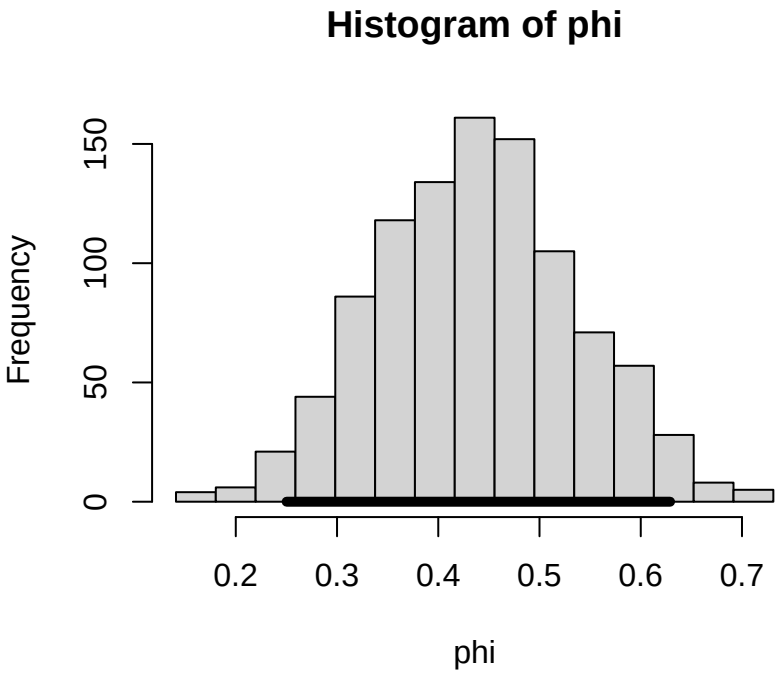
Mean	Standard deviation	2.5%	Median	97.5%	Monte Carlo SE
2.905089	1.225704	1.211919	2.681323	5.88241	0.0387408



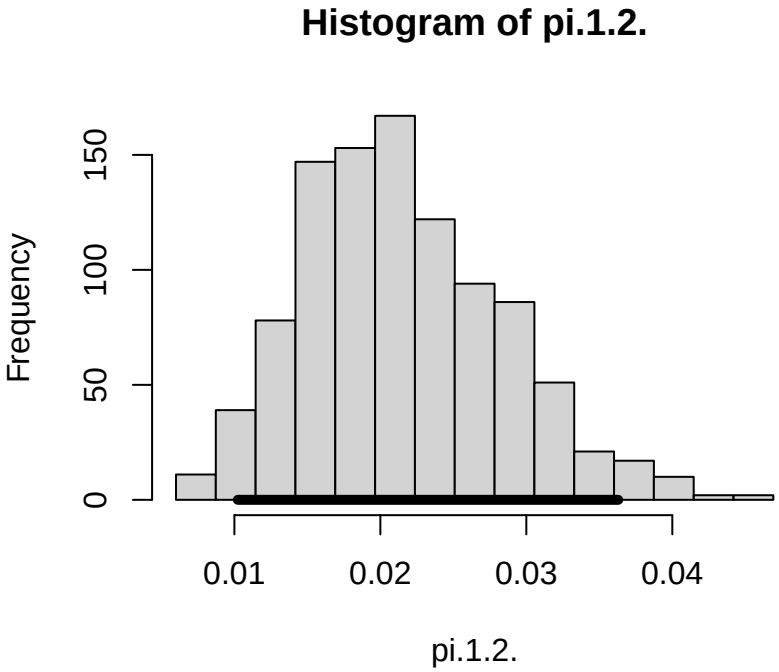
Mean	Standard deviation	2.5%	Median	97.5%	Monte Carlo SE
56170.33	9860.615	36874.55	56216.5	74843.7	311.6641



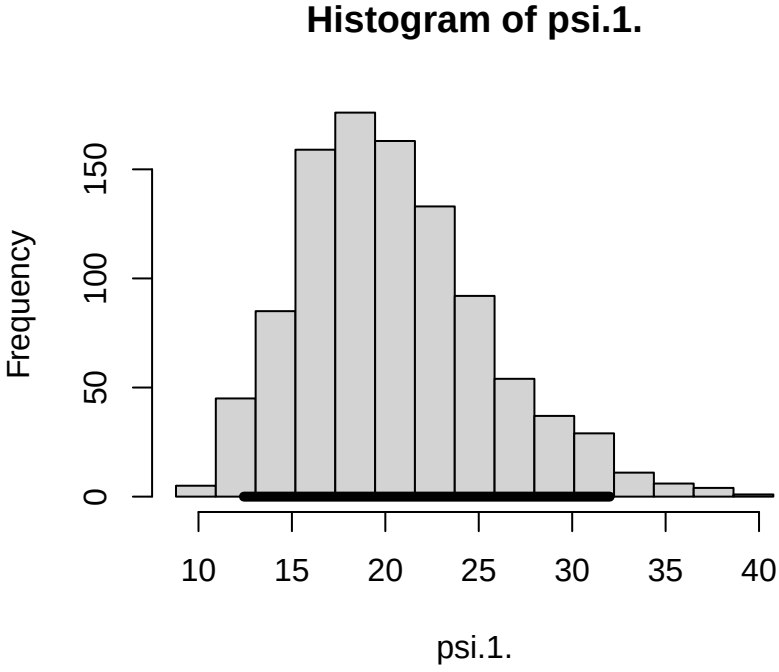
Mean	Standard deviation	2.5%	Median	97.5%	Monte Carlo SE
43829.67	9860.615	25156.3	43783.5	63125.45	311.6641



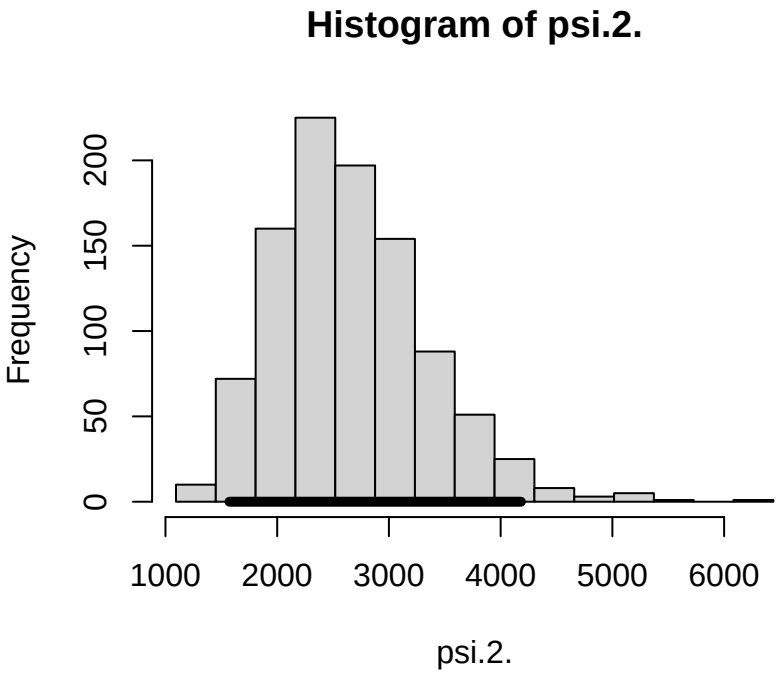
Mean	Standard deviation	2.5%	Median	97.5%	Monte Carlo SE
0.4382939	0.098694	0.2502404	0.4381762	0.6289504	0.0031194



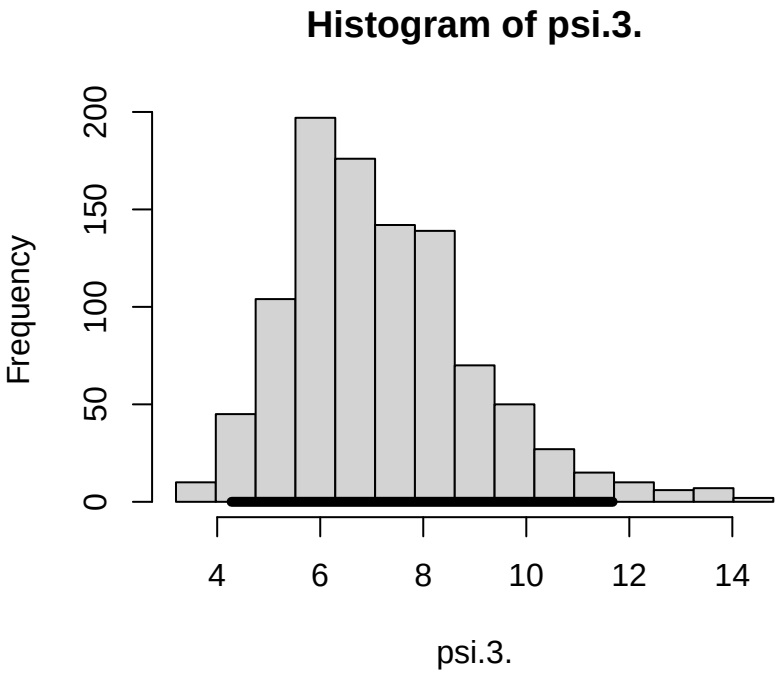
Mean	Standard deviation	2.5%	Median	97.5%	Monte Carlo SE
0.0215133	0.0068073	0.0102327	0.0207813	0.0362975	0.0002152



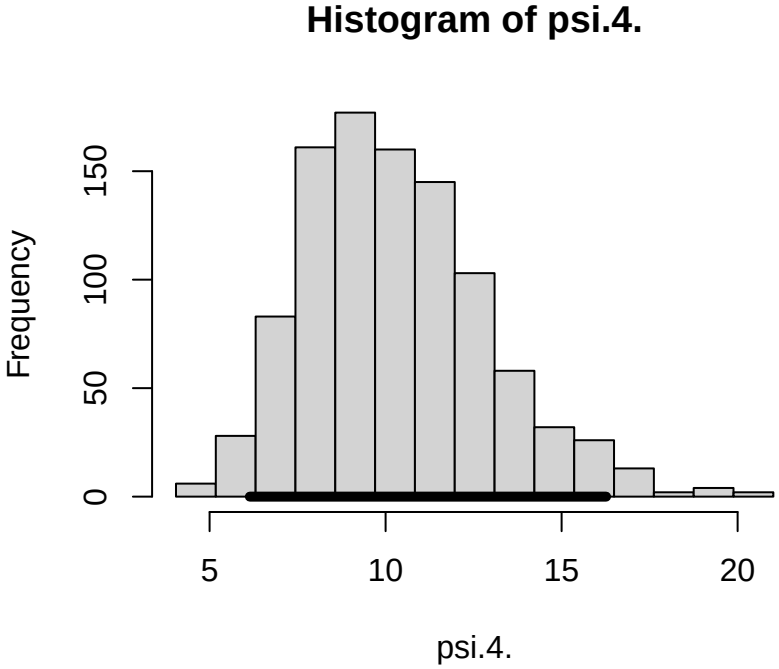
Mean	Standard deviation	2.5%	Median	97.5%	Monte Carlo SE
20.50602	5.086617	12.4331	20.01152	32.00584	0.1607725



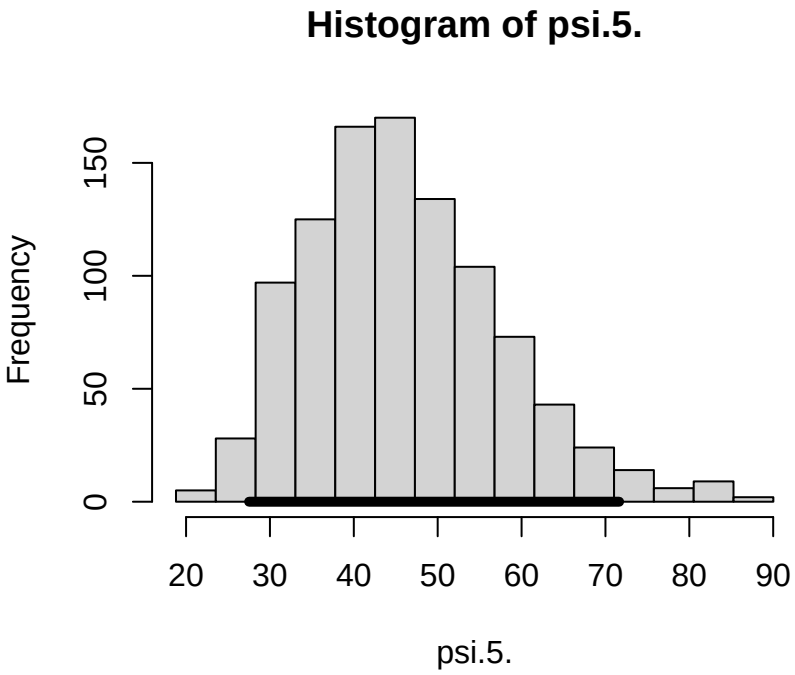
Mean	Standard deviation	2.5%	Median	97.5%	Monte Carlo SE
2661.843	684.1538	1573.676	2583.913	4181.041	21.62402



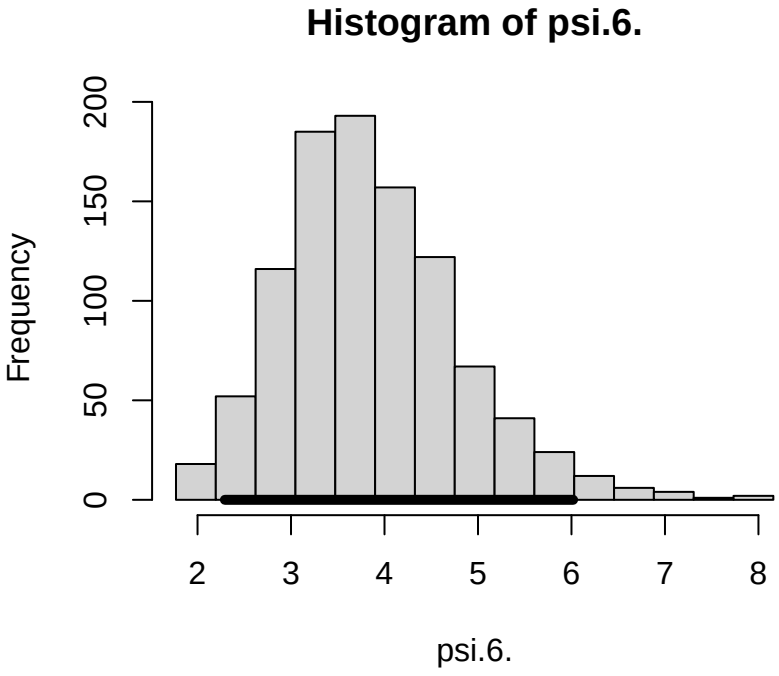
Mean	Standard deviation	2.5%	Median	97.5%	Monte Carlo SE
7.199515	1.83873	4.279942	6.90417	11.67563	0.0581167



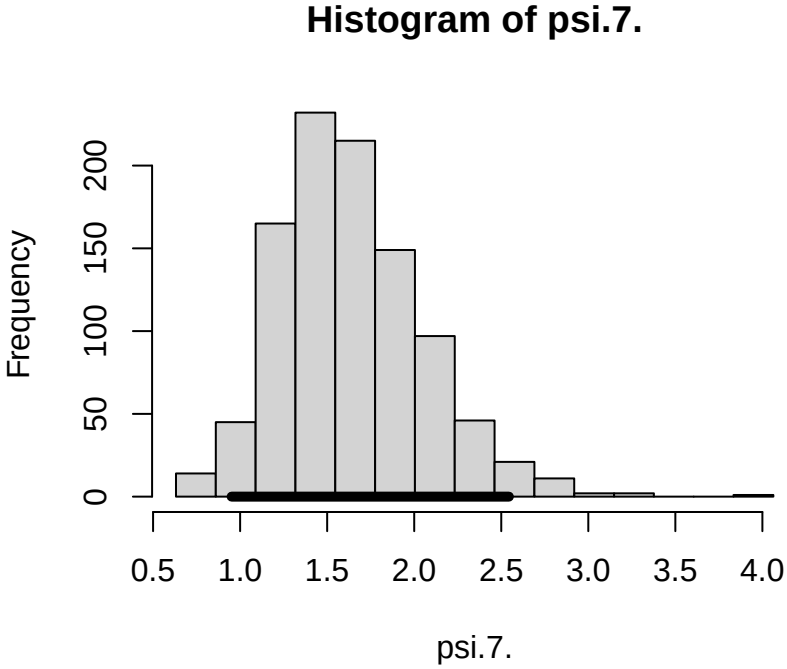
Mean	Standard deviation	2.5%	Median	97.5%	Monte Carlo SE
10.29213	2.607787	6.143624	9.955699	16.26332	0.0824242



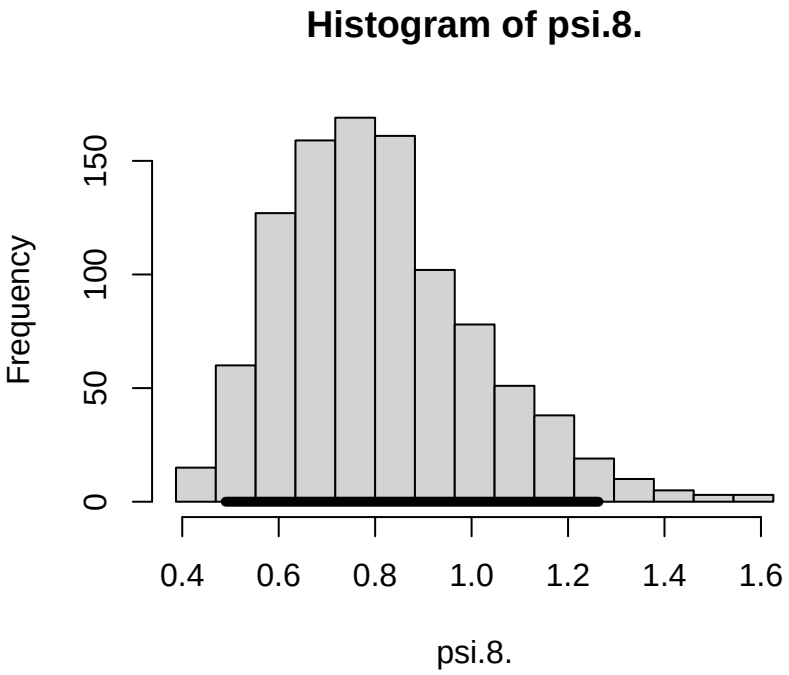
Mean	Standard deviation	2.5%	Median	97.5%	Monte Carlo SE
45.91777	11.68489	27.51898	44.53583	71.62707	0.3693238



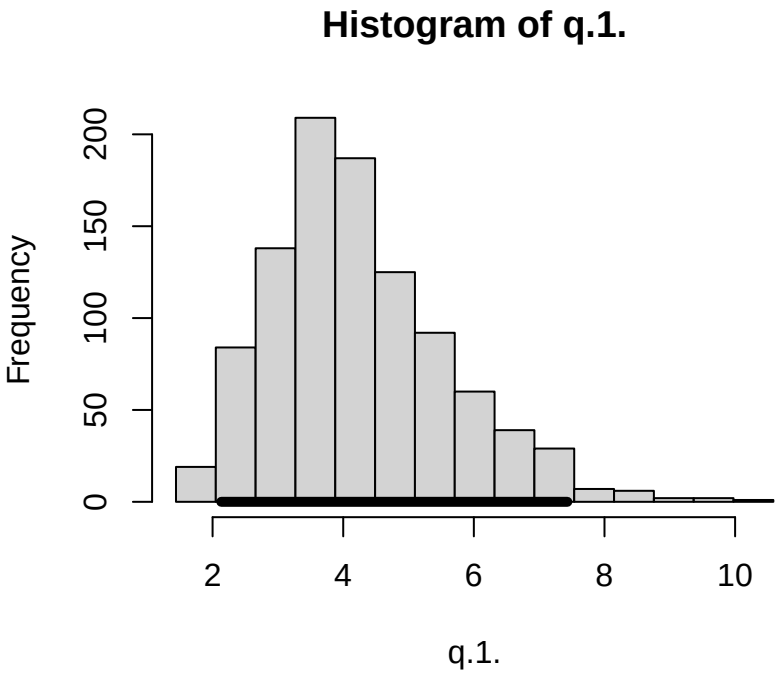
Mean	Standard deviation	2.5%	Median	97.5%	Monte Carlo SE
3.854695	0.9479262	2.292722	3.755557	6.017339	0.0299611



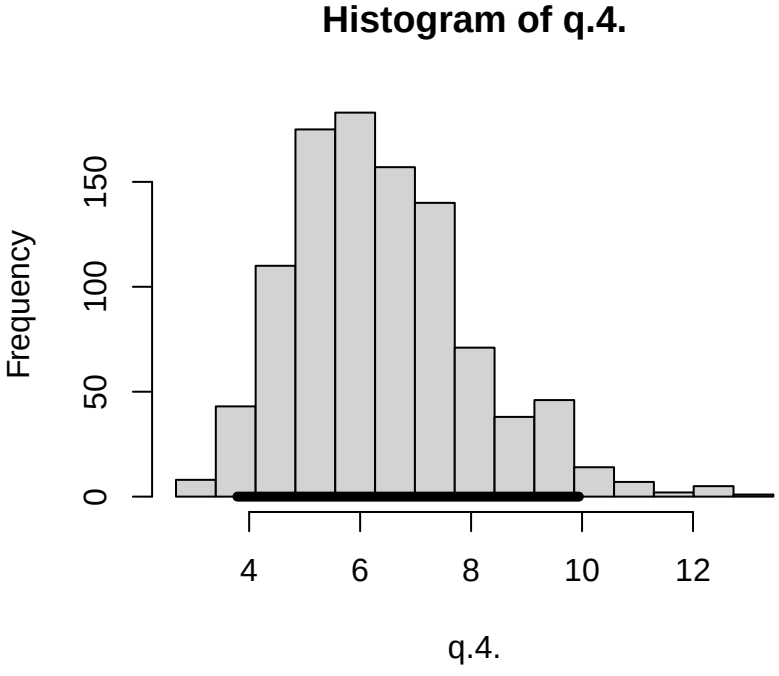
Mean	Standard deviation	2.5%	Median	97.5%	Monte Carlo SE
1.635824	0.4130969	0.9513184	1.591567	2.543868	0.0130567



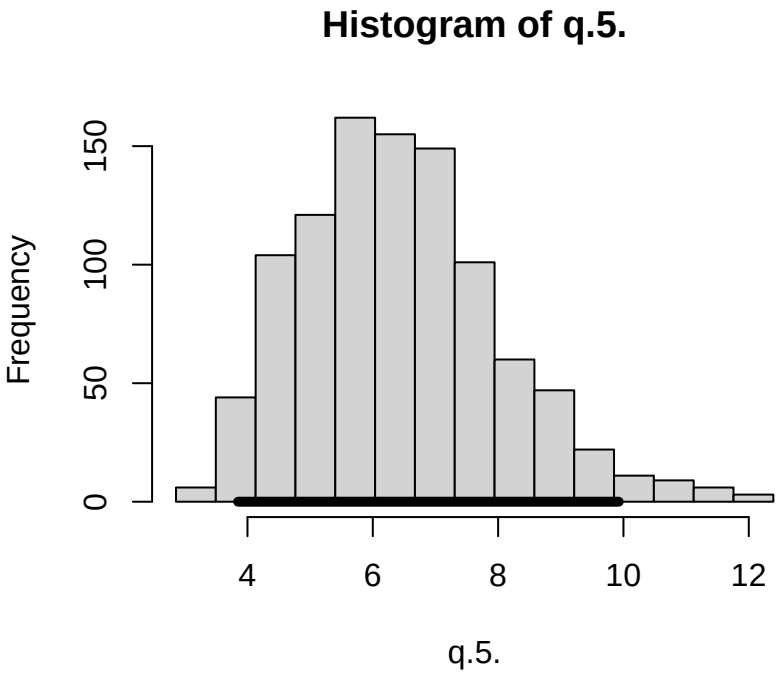
Mean	Standard deviation	2.5%	Median	97.5%	Monte Carlo SE
0.8108407	0.2026673	0.4901607	0.7876551	1.262942	0.0064057



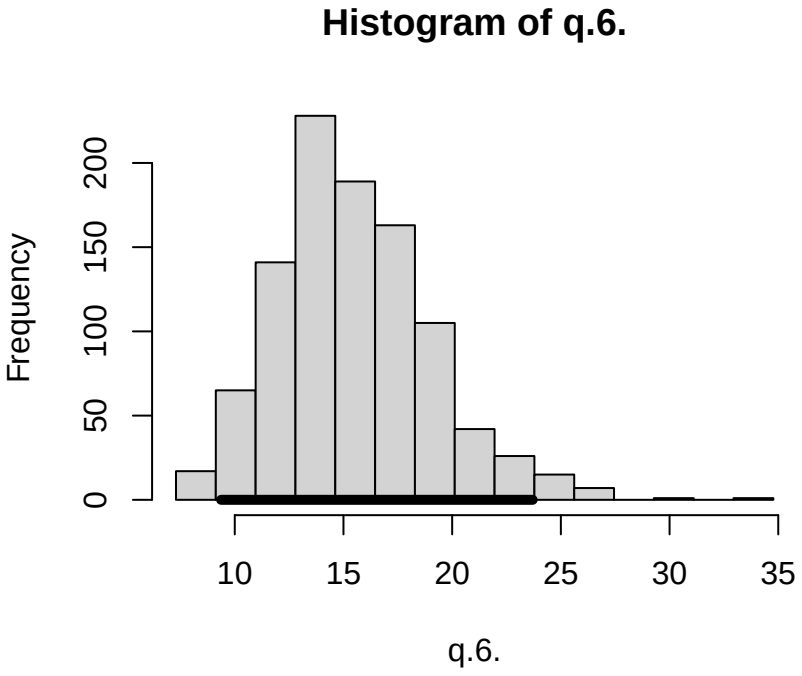
Mean	Standard deviation	2.5%	Median	97.5%	Monte Carlo SE
4.245515	1.380328	2.133401	4.020643	7.43128	0.043628



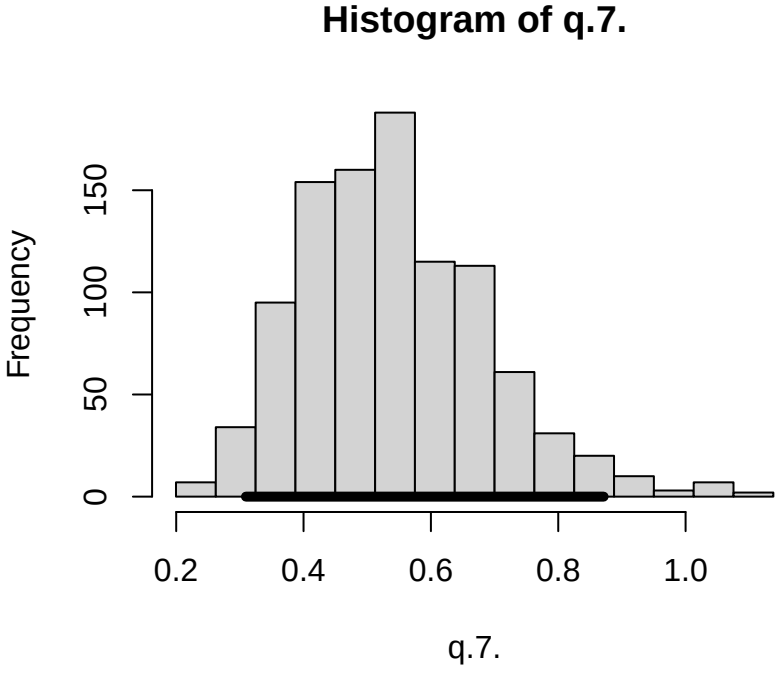
Mean	Standard deviation	2.5%	Median	97.5%	Monte Carlo SE
6.414003	1.640791	3.78795	6.185502	9.942465	0.0518604



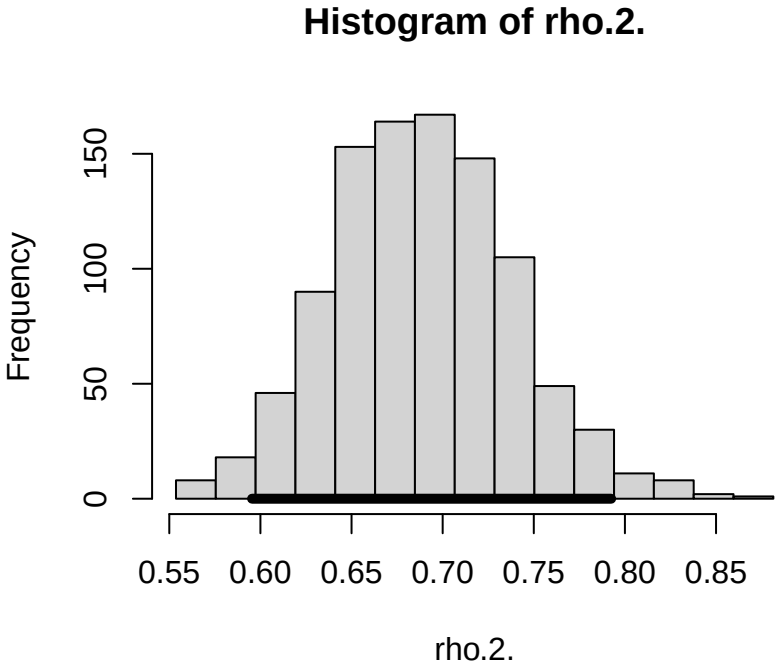
Mean	Standard deviation	2.5%	Median	97.5%	Monte Carlo SE
6.42076	1.584056	3.850581	6.285484	9.924699	0.0500672



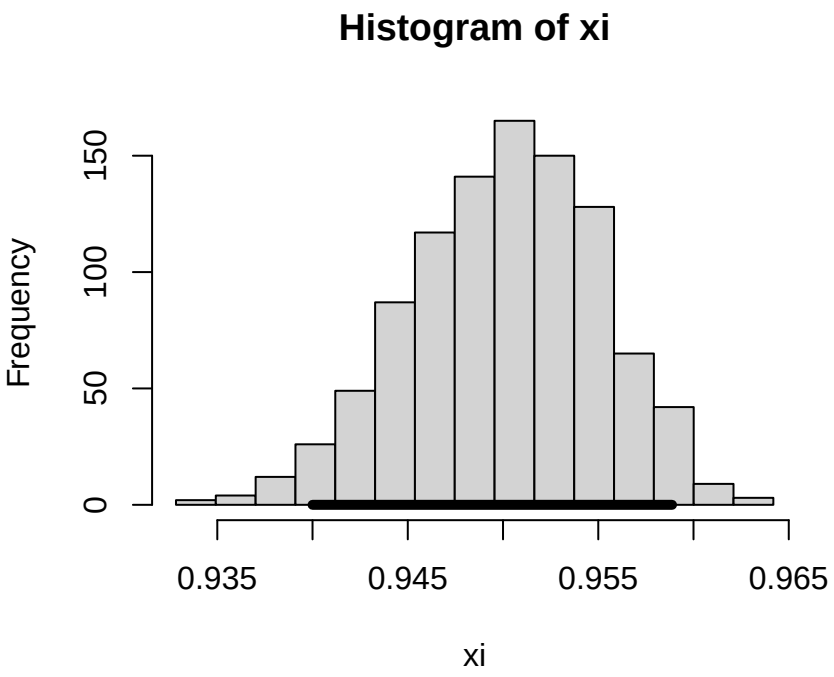
Mean	Standard deviation	2.5%	Median	97.5%	Monte Carlo SE
15.48614	3.549163	9.37079	15.09543	23.70509	0.1121783



Mean	Standard deviation	2.5%	Median	97.5%	Monte Carlo SE
0.5424171	0.1463549	0.3095674	0.528529	0.8712211	0.0046258



Mean	Standard deviation	2.5%	Median	97.5%	Monte Carlo SE
0.6888042	0.0496164	0.5954323	0.6872181	0.7924515	0.0015682



Mean	Standard deviation	2.5%	Median	97.5%	Monte Carlo SE
0.9500773	0.0049722	0.9400008	0.9502989	0.9588729	0.0001572

Probabilistic Sensitivity Analysis

This section presents the results of Probabilistic Sensitivity Analysis (PSA). PSA is used to assess the impact of parameter uncertainty on the decision-making process.

Info-rank plot

This section presents the results of the Info-rank plot. This is an extension of the Tornado plot, which is used to identify the most important parameters. Instead of using deterministic sensitivity analysis, however, the Info-rank plot is based on the analysis of the Expected Value of Partial Perfect Information (EVPPI).

For each parameter and value of the willingness-to-pay threshold k, a barchart is plotted to describe the ratio of EVPPI (specific to that parameter) to EVPI. This represents the relative 'importance' of each parameter in terms of the expected value of information.

```
## Warning in if (base.graphics) {: the condition has length > 1 and only the first element will be used
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## Warning in if (base.graphics) {: the condition has length > 1 and only the first element will be used
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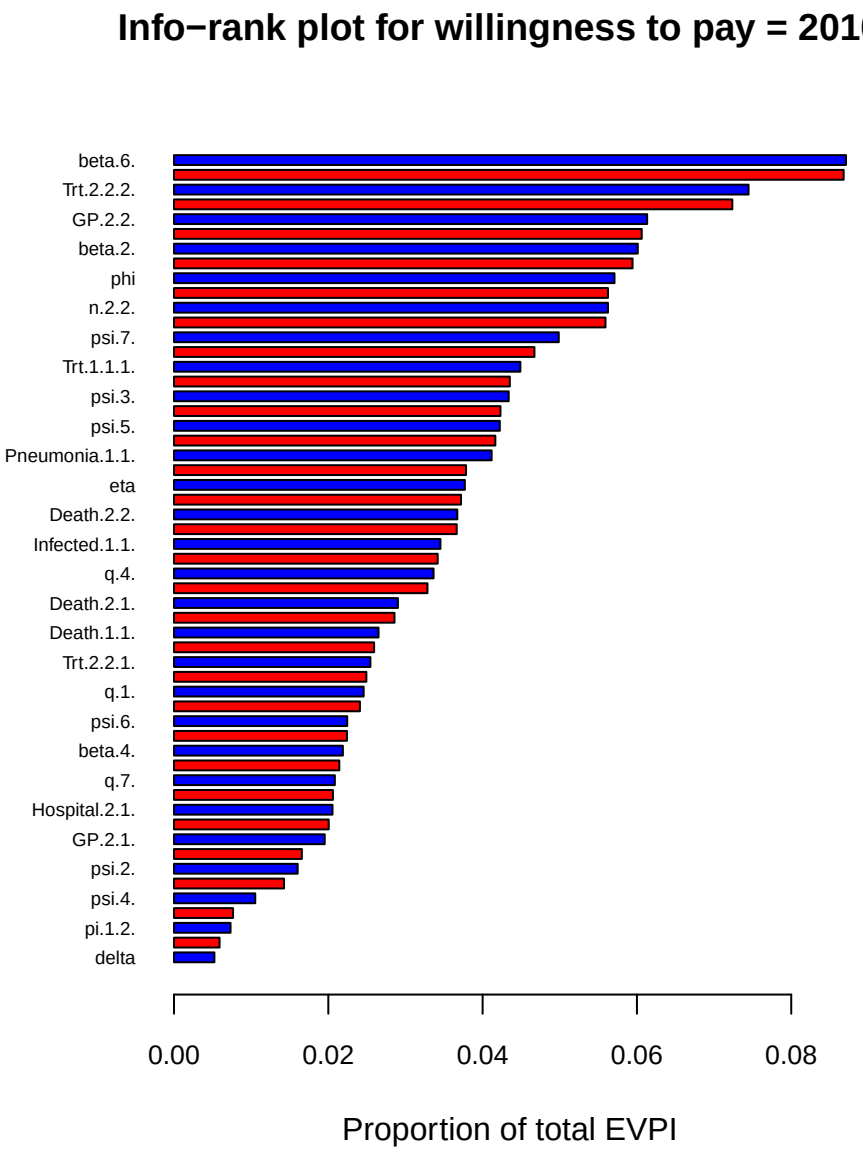
Info−rank plot for willingness to pay = 20100
beta.6.
Trt.2.2.2.
GP.2.2.
beta.2.
phi
n.2.2.
psi.7.
Trt.1.1.1.
psi.3.
psi.5.
Pneumonia.1.1.
eta
Death.2.2.
Infected.1.1.
q.4.
Death.2.1.
Death.1.1.
Trt.2.2.1.
q.1.
psi.6.
beta.4.
q.7.
Hospital.2.1.
GP.2.1.
psi.2.
psi.4.
pi.1.2.
delta
0.00
0.02
0.04
0.06
0.08
Proportion of total EVPI